

ANNUAL REPORT FOR 2016



**Lumber River Bridge Temporary Impact Site
Scotland and Hoke Counties**

TIP No. B-4273

COE Action ID: SAW-2001-01367

DWR Project #: 120535



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TABLE OF CONTENTS

SUMMARY	1
1.0 Introduction	2
.1 Project Description	2
.2 Purpose	2
.3 Project History	2
.4 Debit Ledger	2
2.0 Vegetation:	3
.1 Success Criteria	3
.2 Description of Species	3
.3 Results of Vegetation Monitoring	3
.4 Conclusions.	4
3.0 Overall Conclusions and Recommendations	4

FIGURES

Figure 1 – Vicinity Map	5
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APPENDICES

Appendix A – Site Photos and Site Map	
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SUMMARY

The Lumber River Bridge Temporary Impact Site is located in Scotland and Hoke Counties. This is an annual report for temporary impacts associated with the bridge replacement of Bridge No. 47 on US 401 over the Lumber River. The temporary impact site was planted in March 2016.

The temporary impacts encompass approximately 0.5 acres. The area that was impacted is being monitored to ensure that it re-attains wetland jurisdictional status. Hydrologic monitoring is not required for this site; however, vegetation monitoring is required for two years.

After the first year of monitoring, the Lumber River Bridge Temporary Impact Site shows by visual observation that the temporarily impacted area is re-attaining jurisdictional wetland status.

NCDOT proposes to continue vegetation monitoring at the Lumber River Bridge Temporary Impact Site in 2017.

1.0 INTRODUCTION

1.1 Project Description

The Lumber River Bridge Temporary Impact Site is located in Scotland and Hoke Counties at Bridge No. 47 on US 401 over the Lumber River (Figure 1). The temporary impacts encompass approximately 0.5 acres. The area that was impacted is being monitored to ensure that it re-attains jurisdictional wetland status. Hydrologic monitoring is not required for this site, however, vegetation monitoring is required for two years.

1.2 Purpose

In order for a mitigation site to be considered successful, a site must meet vegetation success criteria. This report details the vegetation monitoring in 2016 at the Lumber River Bridge Temporary Impact Site. Hydrologic monitoring was not required for the site.

1.3 Project History

March 2016	Wetland Reforestation Completed
June 2016	Vegetation Monitoring (Year 1)

1.4 Debit Ledger

The restoration of the Lumber River Bridge temporary impact site was used entirely to compensate for temporary impacts on the B-4273 project. There were no wetland mitigation credits generated from the restoration of the impacted area.

2.0 VEGETATION: LUMBER RIVER BRIDGE TEMPORARY IMPACT SITE (YEAR 1 MONITORING)

2.1 Success Criteria

NCDWR Condition #4

Due to the possibility that compaction and/or other site alterations might prevent the temporary wetland impact area from re-attaining jurisdictional wetland status; the permittee shall provide an update on the wetland areas temporarily impacted at Site 1 (Sta. 15+95 to 24+74 –DET-). This update shall be conducted two growing seasons after completion of the work at Site 1 and shall consist of photographs and a brief report on the progress of the areas in re-attaining wetland jurisdictional status. Upon submission of this update to NCDWR, the permittee shall schedule an agency field meeting with the NCDWR to determine if the wetland areas temporarily impacted by this project have re-attained jurisdictional wetland status. If the wetland areas temporarily impacted by this project have not re-attained jurisdictional wetland status, NCDWR shall determine if compensatory wetland mitigation is required.

2.2 Description of Species

The following wetland species were planted in the temporary impact areas:

Quercus nigra, Water Oak

Nyssa sylvatica var. biflora, Swamp Blackgum

Taxodium distichum, Baldcypress

2.3 Results of Vegetation Monitoring

The impacted area where the temporary impacts occurred is re-attaining wetland jurisdictional status and the hardwood trees are surviving. Other species noted within the temporary impacted areas included *Scirpus* sp., smartweed, soft rush, *Sagittaria* sp., red maple, sweetgum, and various other wetland grasses.

2.4 Conclusions

There were approximately 0.5 acres of temporary impacts. There were no plots established on the site. By visual observation, the Lumber River Bridge Temporary Impacts Site shows that the planted species are surviving and the impacted areas are re-attaining wetland jurisdictional status.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue vegetation monitoring at the Lumber River Bridge Temporary Impact Site in 2017.

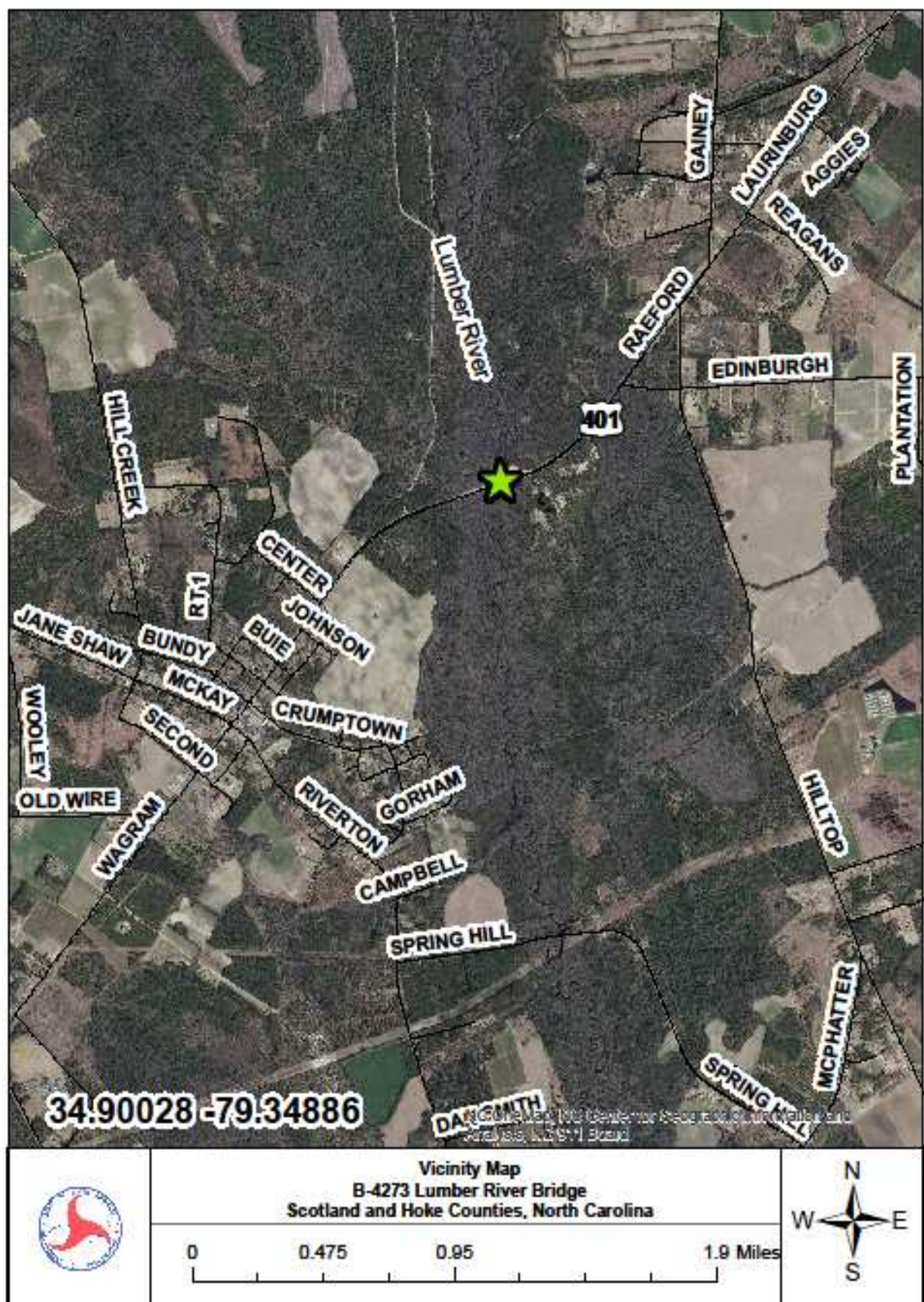


Figure 1. Vicinity Map

APPENDIX A

SITE PHOTOS & SITE MAP

Lumber River Bridge Temporary Impact Site



Photo 1



Photo 2



Photo 3

June 2016

